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(74) Agents: ADAMS, Matthew, D et al.; A J Park, 6th Floor
Huddart Parker Building, PO Box 949, 6015 Wellington
(NZ).

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(71) Applicant (*for all designated States except US*): FISHER
& PAYKEL APPLIANCES LIMITED [NZ/NZ]; 78
Springs Road, East Tamaki, 1706 Auckland (NZ).

(72) Inventors; and

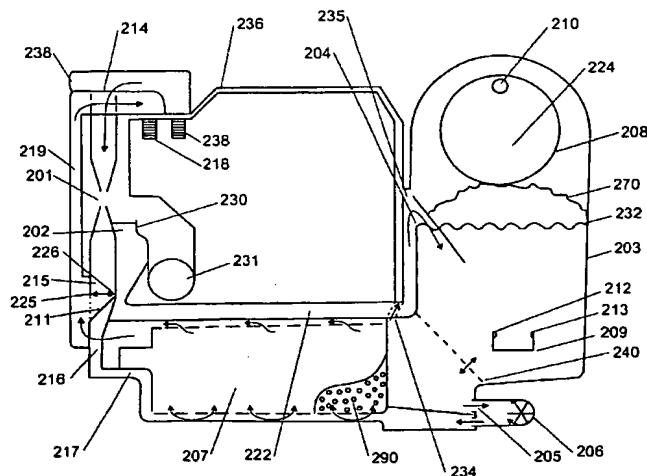
(75) Inventors/Applicants (*for US only*): MAUNSELL,
Stephen, Robert [NZ/NZ]; 320 Gladstone Road, Mos-
giel, 9001 DUNEDIN (NZ). BLAIR, Daniel, Warwick
[NZ/GB]; 10 St John's Court, Warwick, CV34 4NJ
UNITED KINGDOM (NZ).

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(54) Title: WASHING APPLIANCE WATER SOFTENER



(57) Abstract: A water softener particularly for use in a dishwasher. The water softener is located in the dishwasher water supply (238) between the primary supply valve and the wash chamber. The softener includes a resin container (207) with an ion exchange resin (290). Water supplied to the wash chamber optionally passes through the resin container (207). Regenerating brine is developed in a brine container (203). The brine container (203) is supplied manually with solid salt (270) and water diverted into the container from the main supply at an air break (201). In the regenerating cycle brine is delivered from the brine container (203) to the resin container (207) by a pump (206). The duty cycle of the pump (206) determines the degree of regeneration of the resin (290).